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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
09/913,374		12/11/2001	Thomas Brinz	10191/1977	9532		
26646	7590	06/18/2003	·				
KENYON		ON		EXAM	INER		
ONE BROA NEW YORI		004		SIEFKE, SA	SIEFKE, SAMUEL P		
				ART UNIT	PAPER NUMBER		
				1743 DATE MAILED: 06/18/2003	6.		

Please find below and/or attached an Office communication concerning this application or proceeding.

			the					
	Application No.	Applicant(s)						
•	09/913,374	BRINZ ET AL.						
Office Action Summary	Examiner	Art Unit						
	Samuel P Siefke	1743						
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet w	ith the correspondence address						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a y within the statutory minimum of thin will apply and will expire SIX (6) MON , cause the application to become Al	reply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	n.					
1) Responsive to communication(s) filed on	·							
2a) This action is FINAL . 2b) ⊠ Th	is action is non-final.							
3) Since this application is in condition for alloward closed in accordance with the practice under Disposition of Claims			is					
4) Claim(s) 13-25 is/are pending in the application	on.							
4a) Of the above claim(s) is/are withdraw								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>13-25</u> is/are rejected.								
7) Claim(s) is/are objected to.		•						
8) Claim(s) are subject to restriction and/o	r election requirement.							
Application Papers								
9)☐ The specification is objected to by the Examine	r.							
10)☐ The drawing(s) filed on is/are: a)☐ accept	oted or b) objected to by t	he Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) ☐ The oath or declaration is objected to by the Ex	aminer.							
Priority under 35 U.S.C. §§ 119 and 120	•							
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:		·						
Certified copies of the priority documents		•						
2. Certified copies of the priority document		•						
 3. Copies of the certified copies of the prior application from the International Bu See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).	_						
14) Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C.	§ 119(e) (to a provisional applicat	ion).					
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domesting 	• •							
Attachment(s)								
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)						
S. Patent and Trademark Office								

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Application/Control Number: 09/913,374

Art Unit: 1743

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims **13-23** are rejected under 35 U.S.C. 102(b) as being anticipated by Japanese Patent Application 50036361.

'361 discloses an apparatus for cleaning air in the passenger area of an automobile that comprises a filter for acid gas removal, a layer of activated carbon, a heat exchanger, an a honeycomb catalyst for CO removal. The layer of carbon is impregnated with potassium permanganate and dried. The layer was then packed into a container and a gas containing 50 ppm of sulfur dioxide was passed through the filter. The filter completely removed the sulfur dioxide from the gas. The filter comprises a honeycomb or tubular style having inside walls; a block having a plurality of axially parallels round cylindrical tubes aligned side by side in a radial alignment relative to one of a straight line and a point as seen in figure 2 (a-f), wherein the walls are provided with the potassium permanganate. For removing carbon monoxide the honeycomb is coated with aluminum oxide.

Application/Control Number: 09/913,374

Art Unit: 1743

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims **24** and **25** are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese Patent Application 06186198 in view of Japanese Patent Application 50036361.

'361 discloses an apparatus for cleaning air in the passenger area of an automobile, discussed above.

'361 does not teach that this filter be used as a protective layer for separating a carbon dioxide sensor from a room to be monitored for carbon dioxide.

'198 teaches the use of protective layers that protect carbon dioxide sensors from the influence of harmful gases that prolong sensor response time. This protective layer comprises a filter element made of zeolite (protective layer). Therefore it would have been obvious to one having an ordinary skill in the art to modify '361 for use as a

Page 4

protective layer for a carbon dioxide sensor in order to restrain the influence of harmful

gas (sulfur dioxide) to prevent the drop of accuracy and responsiveness of a sensor.

Carbon dioxide sensors are also used for smoke detectors, clearly the modified sensor

of '198 is capable of sensing carbon dioxide in any environment, such as smoke.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Samuel P Siefke whose telephone number is 703-306-

0093. The examiner can normally be reached on M-F 7:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jill A. Warden can be reached on 703-308-4037. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-872-9311

for regular communications and 703-872-9310 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0661.

June 13, 2003